This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A solar collector comprising:

a glass mirror;

a front sheet;

a core comprising a core material selected from the group consisting of a honeycomb structure, a foam selected from the group consisting of polystyrene, polyurethane, and polyvinyl chloride, and a cellulose based material; and

a composite panel, wherein a back of said mirror is affixed to a front surface of said composite panel, said composite panel comprising a front sheet affixed to a surface of [a] said core material and a back sheet affixed to an opposite surface of said core material

a back sheet;

wherein a back of said mirror is affixed to said front sheet; said front sheet is affixed to said core; and said core is affixed to said back sheet.

- 2. (currently amended) The solar collector of claim 1 further comprising a sealing strip positioned between said glass mirror and said front sheet surface of said composite panel.
 - 3. (original) The solar collector of claim 1 wherein said sealing strip comprises EPDM.
 - 4. (original) The solar collector of claim 1 wherein said glass mirror comprises a silvered backing.
- 5. (original) The solar collector of claim 1 wherein said front sheet and back sheet comprise carbon steel.

- 6. (original) The solar collector of claim 5 wherein said carbon steel front sheet and carbon steel back sheet comprise a gauge between approximately 24 and 28 gauge.
- 7. (original) The solar collector of claim 1 wherein said core material comprises a honeycomb structure.
- 8. (original) The solar collector of claim 7 wherein said honeycomb core material comprises aluminum.
- 9. (original) The solar collector of claim 8 wherein said aluminum honeycomb core material comprises aluminum foil between approximately 0.015 and 0.004 inch foil.
- 10. (original) The solar collector of claim 1 wherein said core material comprises foam selected from the group consisting of polystyrene, polyurethane, and polyvinyl chloride.
- 11. (original) The solar collector of claim 1 wherein said core material comprises a cellulose based material.

- 12. (currently amended) A method of making a solar collector comprising the following steps:
 - a) affixing a glass mirror to a front sheet to make a glass/sheet laminate;
- b) affixing the sheet side of the laminate to a surface of a core material selected from the group consisting of a honeycomb structure, a foam selected from the group consisting of polystyrene, polyurethane, and polyvinyl chloride, and a cellulose based material;
- c) affixing a back sheet to an opposite surface of the core material to make a composite panel; [and]
- d) shaping the composite panel to a specific curvature by curing the composite panel over a mandrel of approximately inverse curvature; and
- (e) removing the composite panel from the mandrel and retaining the mirror, the front sheet, the core material, and the back sheet intact as a stacked structure.
- 13. (original) The method of claim 12 further comprising the step of positioning a sealing strip between the glass mirror and front sheet to minimize the accumulation of moisture between the glass mirror and front sheet.
- 14. (original) The method of claim 12 further comprising the step of stacking a plurality of the composite panels atop a single, one-sided mandrel to allow simultaneous construction of solar collectors.
- 15. (original) The method of claim 12 further comprising the step of applying a vacuum to the composite panel in contact with the mandrel.
- 16. (original) The method of claim 14 further comprising the step of applying a vacuum to the composite panel in contact with the mandrel.
 - 17. (original) The method of claim 13 wherein the sealing strip comprises EPDM.

- 18. (original) The method of claim 12 wherein the glass mirror comprises a silvered backing.
- 19. (original) The method of claim 12 wherein the front sheet and back sheet comprise carbon steel.
- 20. (original) The method of claim 19 wherein the carbon steel front sheet and carbon steel back sheet comprise a gauge between approximately 24 and 28 gauge.
- 21. (original) The method of claim 12 wherein the core material comprises a honeycomb structure.
 - 22. (original) The method of claim 21 wherein the honeycomb structure comprises aluminum.
- 23. (original) The method of claim 22 wherein said aluminum honeycomb structure comprises aluminum foil between approximately 0.015 and 0.004 inch foil.
- 24. (original) The method of claim 12 further comprising the step of stacking a plurality of the composite panels above and below a single, double-sided mandrel to allow simultaneous construction of solar collectors.

- 25. (currently amended) A method of making a solar collector comprising the following steps:
 - a) affixing a glass mirror to a front sheet to make a glass/sheet laminate;
- b) placing the glass/sheet laminate mirror side down over a mandrel of specific curvature;
- c) applying a coating <u>of an</u> expandable foam <u>selected from the group</u>

 <u>consisting of polystyrene, polyurethane, and polyvinyl chloride</u> on the sheet side of the laminate;
- d) positioning a back sheet in a frame such that as the foam expands the foam comes in contact with a surface of the back sheet, and forces the composite panel coated laminate to adopt the inverse shape of the mandrel; and
- e) removing the frame from the back sheet and the composite panel from the mandrel, retaining the mirror, the front sheet, the coating expandable foam, and the back sheet intact as a stacked structure.
- 26. (canceled) The method of claim 25 wherein said expandable foam is selected from the group consisting of polystyrene, polyurethane, and polyvinyl chloride.
 - 27. (original) The method of claim 25 wherein the glass mirror comprises a silvered backing.
- 28. (original) The method of claim 25 wherein the front sheet and back sheet comprise carbon steel.
- 29. (original) The method of claim 25 wherein the carbon steel front sheet and carbon steel back sheet comprise a gauge between approximately 24 and 28 gauge.